



SEQUENCE LISTING

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<120> Prevention and Treatment of Amyloidogenic Disease

<130> 15270J-004760US

<140> US 09/580,018

<141> 2000-05-26

<150> US 09/322,289

<151> 1999-05-28

<160> 77

<170> PatentIn Ver. 2.1

<210> 1

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<212> PRT

<213> Artificial Sequence

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from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 1

Glu Glu Ile Ser Glu Val Lys Met Asp Ala
1 5 10

<210> 2

<211> 10

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<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 2

Glu Ile Ser Glu Val Lys Met Asp Ala Glu
1 5 10

<210> 3

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 3
Ile Ser Glu Val Lys Met Asp Ala Glu Phe
1 5 10

<210> 4
<211> 10
<212> PRT
<213> Artificial Sequence

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<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 4
Ser Glu Val Lys Met Asp Ala Glu Phe Arg
1 5 10

<210> 5
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 5
Glu Val Lys Met Asp Ala Glu Phe Arg His
1 5 10

<210> 6
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 6
Val Lys Met Asp Ala Glu Phe Arg His Asp
1 5 10

<210> 7
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 7
 Lys Met Asp Ala Glu Phe Arg His Asp Ser
 1 5 10

<210> 8
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 8
 Met Asp Ala Glu Phe Arg His Asp Ser Gly
 1 5 10

<210> 9
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 9
 Asp Ala Glu Phe Arg His Asp Ser Gly Tyr
 1 5 10

<210> 10
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 10
 Ala Glu Phe Arg His Asp Ser Gly Tyr Glu
 1 5 10

<210> 11
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 11
 Glu Phe Arg His Asp Ser Gly Tyr Glu Val
 1 5 10

<210> 12
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 12
 Phe Arg His Asp Ser Gly Tyr Glu Val His
 1 5 10

<210> 13
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 13
 Arg His Asp Ser Gly Tyr Glu Val His His
 1 5 10

<210> 14
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 14
 His Asp Ser Gly Tyr Glu Val His His Gln
 1 5 10

<210> 15
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 15
 Asp Ser Gly Tyr Glu Val His His Gln Lys
 1 5 10

<210> 16
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 16
 Ser Gly Tyr Glu Val His His Gln Lys Leu
 1 5 10

<210> 17
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 17
 Gly Tyr Glu Val His His Gln Lys Leu Val
 1 5 10

<210> 18
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 18
 Tyr Glu Val His His Gln Lys Leu Val Phe
 1 5 10

<210> 19
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 19
 Glu Val His His Gln Lys Leu Val Phe Phe
 1 5 10

<210> 20
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 20
 Val His His Gln Lys Leu Val Phe Phe Ala
 1 5 10

<210> 21
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 21
 His His Gln Lys Leu Val Phe Phe Ala Glu
 1 5 10

<210> 22
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 22
 His Gln Lys Leu Val Phe Phe Ala Glu Asp
 1 5 10

<210> 23
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 23

Gln Lys Leu Val Phe Phe Ala Glu Asp Val
1 5 10

<210> 24

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 24

Lys Leu Val Phe Phe Ala Glu Asp Val Gly
1 5 10

<210> 25

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 25

Leu Val Phe Phe Ala Glu Asp Val Gly Ser
1 5 10

<210> 26

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 26

Val Phe Phe Ala Glu Asp Val Gly Ser Asn
1 5 10

<210> 27

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 27

Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
 1 5 10

<210> 28

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 28

Phe Ala Glu Asp Val Gly Ser Asn Lys Gly
 1 5 10

<210> 29

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 29

Ala Glu Asp Val Gly Ser Asn Lys Gly Ala
 1 5 10

<210> 30

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 30

Glu Asp Val Gly Ser Asn Lys Gly Ala Ile
 1 5 10

<210> 31

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 31
 Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
 1 5 10

<210> 32
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 32
 Val Gly Ser Asn Lys Gly Ala Ile Ile Gly
 1 5 10

<210> 33
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 33
 Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu
 1 5 10

<210> 34
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 34
 Ser Asn Lys Gly Ala Ile Ile Gly Leu Met
 1 5 10

<210> 35
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 35
Asn Lys Gly Ala Ile Ile Gly Leu Met Val
1 5 10

<210> 36
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 36
Lys Gly Ala Ile Ile Gly Leu Met Val Gly
1 5 10

<210> 37
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 37
Gly Ala Ile Ile Gly Leu Met Val Gly Gly
1 5 10

<210> 38
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 38
Ala Ile Ile Gly Leu Met Val Gly Gly Val
1 5 10

<210> 39
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:10-mer peptide
from AN1792 sequence (human Abeta42, beta-amyloid
peptide)

<400> 39

Ile Ile Gly Leu Met Val Gly Gly Val Val
 1 5 10

<210> 40

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 40

Ile Gly Leu Met Val Gly Gly Val Val Ile
 1 5 10

<210> 41

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:10-mer peptide
 from AN1792 sequence (human Abeta42, beta-amyloid
 peptide)

<400> 41

Gly Leu Met Val Gly Gly Val Val Ile Ala
 1 5 10

<210> 42

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<223> human Abeta42 beta-amyloid peptide

<400> 42

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys
 1 5 10 15

Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
 20 25 30

Gly Leu Met Val Gly Gly Val Val Ile Ala
 35 40

<210> 43

<211> 13

<212> PRT

<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:influenza
 hemagglutinin HA-307-319 universal T-cell epitope

<400> 43
 Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
 1 5 10

<210> 44
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PADRE universal
 T-cell epitope

<220>
 <221> misc_feature
 <222> (3)
 <223> Xaa = Any amino acid

<400> 44
 Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala
 1 5 10

<210> 45
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:malaria CS, T3
 epitope universal T-cell epitope

<400> 45
 Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn Val
 1 5 10 15

<210> 46
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:hepatitis B
 surface antigen HBsAg-19-28 universal T-cell
 epitope

<400> 46
 Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile
 1 5 10

<210> 47
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:heat shock
protein 65 hsp65-153-171 universal T-cell epitope

<400> 47

Asp Gln Ser Ile Gly Asp Leu Ile Ala Glu Ala Met Asp Lys Val Gly
1 5 10 15

Asn Glu Gly

<210> 48

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:bacille
Calmette-Guerin universal T-cell epitope

<400> 48

Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu
1 5 10

<210> 49

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:tetanus toxoid
TT-830-844 universal T-cell epitope

<400> 49

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
1 5 10 15

<210> 50

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:tetanus toxoid
TT-947-967 universal T-cell epitope

<400> 50

Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
1 5 10 15

Ala Ser His Leu Glu
20

<210> 51
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:HIV gp120 T1
 universal T-cell epitope

<400> 51
 Lys Gln Ile Ile Asn Met Trp Gln Glu Val Gly Lys Ala Met Tyr Ala
 1 5 10 15

<210> 52
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:AN 90549 Abeta
 1-7/tetanus toxoid 830-844

<400> 52
 Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
 1 5 10 15

Ile Gly Ile Thr Glu Leu
 20

<210> 53
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:AN 90550 Abeta
 1-7/tetanus toxoid 947-967

<400> 53
 Asp Ala Glu Phe Arg His Asp Phe Asn Asn Phe Thr Val Ser Phe Trp
 1 5 10 15

Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
 20 25

<210> 54
 <211> 43
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:AN90542 Abeta
 1-7/tetanus toxoid 830-844 + 947-967

<400> 54
 Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
 1 5 10 15

Ile Gly Ile Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu
 20 25 30

Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
 35 40

<210> 55
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:AN 90576 Abeta
 3-9/tetanus toxoid 830-844

<400> 55
 Glu Phe Arg His Asp Ser Gly Gln Tyr Ile Lys Ala Asn Ser Lys Phe
 1 5 10 15

Ile Gly Ile Thr Glu Leu
 20

<210> 56
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:AN90562 Abeta
 1-7/peptide

<220>
 <221> misc_feature
 <222> (3)
 <223> Xaa = any amino acid

<400> 56
 Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala Asp Ala Glu
 1 5 10 15

Phe Arg His Asp
 20

<210> 57
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:AN90543 Abeta
 1-7 x 3/peptide

<220>
 <221> misc_feature
 <222> (24)
 <223> Xaa = any amino acid

<400> 57

Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala
 1 5 10 15

Glu Phe Arg His Asp Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala
 20 25 30

Ala Ala

<210> 58

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<220>

<221> misc_feature

<222> (3)

<223> Xaa = any amino acid

<400> 58

Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala Asp Ala Glu
 1 5 10 15

Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg
 20 25 30

His Asp

<210> 59

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<220>

<221> misc_feature

<222> (10)

<223> Xaa = any amino acid

<400> 59

Asp Ala Glu Phe Arg His Asp Ala Lys Xaa Val Ala Ala Trp Thr Leu
 1 5 10 15

Lys Ala Ala Ala
 20

<210> 60
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 60
 Asp Ala Glu Phe Arg His Asp Ile Ser Gln Ala Val His Ala Ala His
 1 5 10 15
 Ala Glu Ile Asn Glu Ala Gly Arg
 20

<210> 61
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 61
 Phe Arg His Asp Ser Gly Tyr Ile Ser Gln Ala Val His Ala Ala His
 1 5 10 15
 Ala Glu Ile Asn Glu Ala Gly Arg
 20

<210> 62
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 62
 Glu Phe Arg His Asp Ser Gly Ile Ser Gln Ala Val His Ala Ala His
 1 5 10 15
 Ala Glu Ile Asn Glu Ala Gly Arg
 20

<210> 63
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 63

Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr Asp Ala Glu
 1 5 10 15

Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg
 20 25 30

His Asp

<210> 64

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 64

Asp Ala Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu
 1 5 10 15

Lys Leu Ala Thr Asp Ala Glu Phe Arg His Asp
 20 25

<210> 65

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 65

Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala
 1 5 10 15

Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu
 20 25 30

Ala Thr

<210> 66

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 66

Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Pro Lys
 1 5 10 15

Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
 20 25

<210> 67
 <211> 79
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 67
 Asp Ala Glu Phe Arg His Asp Pro Lys Tyr Val Lys Gln Asn Thr Leu
 1 5 10 15
 Lys Leu Ala Thr Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser
 20 25 30
 Val Phe Asn Val Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile
 35 40 45
 Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro
 50 55 60
 Lys Val Ser Ala Ser His Leu Glu Asp Ala Glu Phe Arg His Asp
 65 70 75

<210> 68
 <211> 57
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 68
 Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala
 1 5 10 15
 Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly
 20 25 30
 Ile Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val
 35 40 45
 Pro Lys Val Ser Ala Ser His Leu Glu
 50 55

<210> 69
 <211> 44
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 69

Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
 1 5 10 15

Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Trp
 20 25 30

Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu
 35 40

<210> 70

<211> 51

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:fusion protein
 with Abeta epitope

<400> 70

Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
 1 5 10 15

Ile Gly Ile Thr Glu Leu Cys Phe Asn Asn Phe Thr Val Ser Phe Trp
 20 25 30

Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu Asp Ala Glu Phe
 35 40 45

Arg His Asp
 50

<210> 71

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synuclein
 fusion protein

<400> 71

Glu Gln Val Thr Asn Val Gly Gly Ala Ile Ser Gln Ala Val His Ala
 1 5 10 15

Ala His Ala Glu Ile Asn Glu Ala Gly Arg
 20 25

<210> 72

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Abeta 1-12
 peptide with inserted Cys residue

<400> 72.

Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val Cys
 1 5 10

<210> 73

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Abeta 1-5
 peptide with inserted Cys residue

<400> 73

Asp Ala Glu Phe Arg Cys
 1 5

<210> 74

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Abeta 33-42
 peptide with inserted Cys residue

<220>

<221> MOD_RES

<222> (2)

<223> Xaa = amino-heptanoic acid

<400> 74

Cys Xaa Gly Leu Met Val Gly Gly Val Val Ile Ala
 1 5 10

<210> 75

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Abeta 13-28
 peptide with two Gly residues added and inserted
 Cys residue

<220>

<221> MOD_RES

<222> (1)

<223> Xaa = N-acetyl His

<400> 75

Xaa His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
 1 5 10 15

Gly Gly Cys

<210> 76.
 <211> 4
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<220>
 <223> Description of Artificial Sequence:linker

<400> 76
 Glu Gly Glu Gly
 1

8
 A
 <210> 77
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:fusion protein with Abeta epitope

<400> 77
 Asp Ala Glu Phe Arg His Asp Gln Tyr Ile Lys Ala Asn Ser Lys Phe
 1 5 10 15

Ile Gly Ile Thr Glu Leu
 20